52,505
09/7

Stewart

L# Hits	EAST SEARCH Search String	5/14/04 Databases	
L1 19698	buffer\$ near10 (logic or network\$)	USPAT; EPO; JPO	
	vibrat\$6 and test\$5 and calibrat\$5 and (simulat\$5 or model\$5)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	ERWENT; IBM_TDB
•	1 and (/U3/\$.ccis. or /U2/\$.ccis.)	USPAL; US-PGPUB; EPO; JPO; DE	EKWENI; IBM_I UB
L3	6U06164.FN.	USPAT	
	Carlo (Vibratão Same testão Same Campratão)	USPAT, US-FGFUB, EFO, JPO, DERWENT, IBM_TDB	EKWENI, IBM_IDB
	earinquake nearo (simulatao of modelao)	USPAT, US-FGFUB, EPO, JPO, DE	EKWENI, IBM_IDB
	3422824.PN.	USPAT	
-			
Results of search set L4	set L4:		
US RE34663 E	Non-invasive determination of mechanical characteristics in the body	19940719 600/587	
US 6718615 B2	Method of forming a coriolis flowmeter	20040413 29/592.1	
US 6691573 B2	Portable vehicle testing environment	20040217 73/571	
US 6684663 B2	Microinscribed gemstone	20040203 63/32	
US 6679121 B2	Blade vibration test apparatus and method	20040120 73/660	
US 6675653 B2	Method and system for detecting drive train vibrations	20040113 73/650	
US 6674532 B2		20040106 356/491	
US 6672168 B2	Multi-level machine vibration tester marker pen	20040106 73/660	
US 6668650 B1	Vibration testing apparatus and method using acoustical waves	20031230 73/571	
	Method of improving steering performance robustness utilizing dimensional non-		
US 6668635 B2	uniformity in tire/wheel	20031230 73/146	
US 6665633 B2	Relation of rotational vibration stimuli to performance of a hard disc drive	20031216 702/182	
US 6649277 B1	Structure for and method of making magnetic recording media	20031118 428/611	
US 6627006 B1	Method of controlling a treatment line	20030930 148/241	
US 6624894 B2		•	
US 6623698 B2	Saliva-monitoring biosensor electrical toothbrush		
	Method of improving steering performance robustness utilizing stiffness non-		
US 6606902 B2	uniformity in tire/wheel	20030819 73/146	
US 6598455 B1	Non-inertial calibration of vibratory ovroscones	•	
	Sensor having a resonance structure, especially an acceleration or rotation rate		
US 6564637 B1	sensor, and a device for carrying out a self-test	20030520 73/504.12	
US 6559655 B1	System and method for analyzing agricultural products on harvesting equipment	20030506 324/634	
US 6541957 B1	Method and apparatus for detecting motor shaft coupling features	20030401 324/166	
US 6531321 B1	Blood control and system for erythrocyte sedimentation measurement	20030311 436/70	
US 6516863 B2	Foundry sand	•	
	Coriolis effect transducer		
US 6510745 B2	Coriolis effect transducer	20030128 73/861.356	

US 6498996 B1	Vibration compensation for sensors	20021224	702/104
00 7300043 311	Applies of Adjusted and a mother the delicition of ladiation sincing	00001	770,000
705050	Mothodo for pinnal publications in patient missions and missions are missions and missions and missions are m	20021210	140/040
US 0403902 B1	Medicus foi signal ennancement in optical microorganism sensors	971.1707	435/288./
US 648458U BZ	in situ testing of a satellite of other object prior to development	20021126	13/5/1
US 6476351 B1	Laser marking system	20021105	219/121.69
6443736	Technology explorer model	20020903	434/300
US 6435262 B1	Foundry sand	20020820	164/412
US 6416916 B1	Toner and developer for magnetic brush development system	20020709	430/108.3
US 6412354 B1	Vibrational forced mode fluid property monitor and method	20020702	73/861.356
US 6395482 B1	Method of determining susceptibility to schizonhrenia	20020528	435/6
6388949	Marine furthe acquestic repellent/alerting apparatus and method	2002020	367/130
6328647	Procesure differential detection exctem and method of use	20020314	454725
10000	Rotational vibration compensation using a fixed head and a constant frequency	11711007	607/404
US 6304406 B1	pattern	20011016	360/73.03
US 6289734 B1	In-situ non-destructive audiosonic identification system for visco-elastic materials Rotational vibration compensation using a dedicated surface with a constant	20010918	73/573
US 6285522 B1	frequency pattern	20010904	360/77.05
US 6222336 B1	Rotational vibration detection using spindle motor velocity sense coits	20010424	318/448
US 6211484 B1	Laser making system and certificate for a gemstone	20010403	219/121 68
US 6205871 B1	Vascular phantoms	20010327	73/866 4
	Method and system to measure torque per unit current as a function of angle in	17001007	1.000
US 6196047 B1	hard disk drive actuators	20010306	73/1.11
US 6183882 B1	In plane deflection coupon for monitoring and controlling of laser shock peening	20010206	428/614
US 6138493 A	Kinematic error test calibration	20001031	73/1.01
US 6120466 A	System and method for quantitative measurements of energy damping capacity System for monitoring the dynamic tooling/shutheight deflection activity within a	20000919	600/590
US 6114965 A	press machine	20000905	340/680
	Method and apparatus for balancing rotating components of a spinstand of a		
US 6094047 A	magnetic nead and disk tester Method for monitoring and controlling laser shock peening using temporal light	20000725	324/262
US 6075593 A	spectrum analysis	20000613	356/318
US 6071863 A	Biodegradable polyalphaolefin fluids and formulations containing the fluids	20000606	508/591
US 6052056 A	Substance detection system and method	20000418	340/583
US 6031486 A	Method and apparatus for integration and testing of satellites	20000229	342/165
	Method of monitoring and controlling laser shock peening using an in plane		
US 5951790 A	deflection test coupon	19990914	148/510
US 5932119 A	Laser marking system	19990803	219/121.68
US 5928160 A	Home hearing test system and method	19990727	600/228
US 5895858 A	Integrated accelerometer test system	19990420	73/1.38
	Interchangeable sample stage with integral reference surface for magnetic-head		
US 5844675 A	suspension measuring instrument	19981201	356/139.03
US 5804697 A	Remote control structural exciter	19980908	73/1.82

	Method for removing solid particulate material from within liquid fuel injector		
US 5803983 A	assemblies	19980908	134/22.12
US 5771298 A	Apparatus and method for simulating a human mastoid	19980623	381/60
US 5764518 A	Self reproducing fundamental fabricating machine system	19980609	26/00/
US 5761090 A	Expert system for testing industrial processes and determining sensor status	19980602	714/26
	Self-calibrating and remote programmable signal conditioning amplifier system		
US 5734596 A	and method	19980331	702/107
US 5675505 A	Sine on random data analysis method for simulating engine vibration	19971007	702/113
US 5642298 A	Wafer testing and self-calibration system	19970624	702/117
US 5624377 A	Apparatus and method for simulating a human mastoid	19970429	600/25
US 5610339 A	Method for collecting machine vibration data	19970311	73/660
US 5602757 A	Vibration monitoring system	19970211	702/56
	Monoclonal antibodies against human TNF-binding protein I (TNF-BP I) and		
US 5582998 A	immunoassays therefor	19961210	435/7.1
US 5576984 A	Hydrodynamic bearing rotor orbit simulator	19961119	703/7
US 5535615 A	Absorption tester for measuring the wicking characteristics of a paperboard web Methods of correcting optically generated errors in an electro-optical gauging	19960716	73/38
US 5517575 A	system	19960514	382/108
US 5517426 A	Apparatus and method for adaptive closed loop control of shock testing system Electro-optical system for cauding surface profile deviations using infrared	19960514	702/109
US 5463464 A	radiation	19951031	356/601
US 5416589 A	Electro-optical system for gauging surface profile deviations	19950516	356/601
US 5315232 A	Electric field measuring system	19940524	324/72
US 5310157 A	Vibration isolation system	19940510	248/619
US 5302191 A	Denuder for gas sampling	19940412	95/285
US 5296655 A	Control system for multiple input scales	19940322	177/199
	Active resistor trimming of accelerometer circuit	19940322	73/1.38
	Vibration test fixture	19940111	73/663
	Apparatus and process for measuring mechanical properties of fibers	19931214	73/160
	Calibration system	19931012	73/1.86
US 5228980 A	Fluidized catalytic cracking process employing shell-coated FCC catalysts	19930720	208/120.15
US 5207107 A	Non-intrusive flow meter for the liquid based on solid, liquid or gas borne sound System and method for transmission gearbox noise control utilizing localized oil	19930504	73/861.04
US 5189929 A	cooling/heating	19930302	74/606A
US 5153393 A	Crash sensor for a passive motor vehicle occupant restraint system	19921006	200/61.45R
US 5152401 A	Agricultural commodity condition measurement	19921006	209/556
	Apparatus and method for simultaneous measurement of film thickness and		
5129724	surface height variation for film-substrate sample	19920714	356/503
US 5111704 A	Apparatus and method for simulating blade pass sensor signals	19920512	73/866.4
	blade pass sensor signal simulating appts has processor providing series of discrete values, D=A converters, analog signal filter, clock circuitry and		
US 5111704 A	synchroniser	19920512	
US 4984449 A	Ultrasonic liquid level monitoring system	19910115	73/49.2
US 4977510 A	Computerized control system and method for balancers	19901211	701/124

US 4975573 A	Optical test bench	19901204	250/252.1
US 4965513 A	Motor current signature analysis method for diagnosing motor operated devices Beforence standard block for use in nondestructive test norther collibration and	19901023	324/772
A 0000001	releiche staffuald block for use in nondestructive test probe calibration and	0,000	
US 4903020 A	method of manufacture thereof	19901016	324/202
US 4932/88 A	Montoring of the quality of a flowing vapor	19900612	3/4/35
US 4909064 A	Impulse calibration of mechanical to electrical transducers	19900320	73/1.82
US 4903788 A	Vibrating tray scale with conveying mechanism	19900227	177/210FP
	Apparatus and method of determining the authenticity of weight obtained from a		
US 4856604 A	vibrating tray scale	19890815	177/210FP
US 4856602 A	Apparatus and method of weighing articles based upon harmonic motion	19890815	177/210FP
	Styrylaryloxy ether sulfonates, a process for their preparation and their use in the		!
US 4842776 A	recovery of crude oil	19890627	562/42
US 4834111 A	Heterodyne interferometer	19890530	600/587
US 4825647 A	Performance improvements in thruster assembly	19890502	60/203 1
US 4824240 A	Internal laser interferometer	19890425	356/4 1
11S 4815004 A	Annaratus and method for predicting fore/aft forces generated by tires	10800321	702/41
11C 4801365 A	Mothod for pariching a middle inches withretics withration automates	10000424	204/457 22
A 9750074 311	Discological control of the control	19090131	27.101.402
CO 4/ 995/0 A	riezoelecuro viscoriterer	19890124	13/34.27
4785797	Method and apparatus for therapeutic motion and sound treatment of infants	19881122	601/60
US 4782446 A	Vibrator quality control method and system	19881101	702/14
	Apparatus and method of determining the mass of an article by measuring the		
US 4778018 A	shift in the period of harmonic motion	19881018	177/210FP
US 4774064 A	Conversion of calcium compounds into solid and passous compounds	1988097	423/168
A 2777783 I	Non-invasive determination of mechanical characteristics in the body	1088001	600/687
10 4752440 A		19000320	1960030
US 4/33110 A	Dynamometers	19880628	/3/146
US 4730449 A	Radiation transfer thrusters for low thrust applications	19880315	60/203.1
US 4646754 A	Non-invasive determination of mechanical characteristics in the body	19870303	600/587
US 4612800 A	Slurry viscometer	19860923	73/54.01
US 4535411 A	Field balancing apparatus	19850813	700/279
US 4492465 A	Retro-reflective electro-optical angle measuring system	19850108	356/139.03
US 4480480 A	System for assessing the integrity of structural systems	19841106	73/769
US 4479386 A	Insulation bonding test system	19841030	73/582
11S 4447699 A	Closed loop control of continuous seam resistance heated force welding cylinders 19840508	10840508	219/110
	Account for any contract and a second contra	10040504	72/00
00 4440000	Accusing glowing impedance meter	19840501	73/389
A 50153 A 5105 A	Retro-reflective electro-optical angle measuring system	19840417	356/139.03
US 4422226 A	Process for producing crystal resonators	19831227	29/25.35
US 4408285 A	Vibration analyzing apparatus and method	19831004	702/56
US 4377343 A	Dual-beam skin friction interferometer	19830322	356/503
US 4376884 A	Closed loop control of continuous seam resistance heated forge welding cylinders 19830315	19830315	219/109
US 4376883 A	Monitoring weld quality via forging assembly dynamics	19830315	219/109
US 4371078 A	Pallet, process and apparatus for producing crystal resonators	19830201	206/716
US 4369653 A	Shrinkage gauge and method	19830125	73/150R
US 4366715 A	Pressure testing apparatus	19830104	73/714
11S 4364837 A	Shamoo compositions comprising sarcharides	19830104	510/124
1001001	Champoo Compositions Comprising Saccinations	130717061	171/010

	Apparatus tor non-invasive measurement and display nasalization in numan		
US 4335276 A	speech	19820615	704/276
US 4251767 A	Dual channel capacitance measurement device	19810217	324/676
US 4203724 A	Method and apparatus for the measurement of antigens and antibodies	19800520	436/519
US 4128011 A	Investigation of the soundness of structures	19781205	73/579
US 4064735 A	Excitation and spectral calibration of acoustic emission systems	19771227	73/1.82
US 4047967 A	Concrete composition	19770913	524/4
US 3974689 A	System for detecting faults along an electric overhead traveling crane runway	19760817	73/146
US 3960004 A	Method for measuring impedance	19760601	73/589
US 3948248 A	Method of measuring ocular pulse	19760406	600/457
US 3922572 A	Electroacoustical transducer	19751125	310/334
US 3834221 A	TEST STAND FOR VEHICLE ENGINES	19740910	73/116
US 3830091 A	ACCELEROMETER COMPARATOR	19740820	73/1.38
	CALIBRATION AND BALANCE SYSTEM IN PULSE EDDY CURRENT TESTING		
US 3823368 A	APPARATUS	19740709	324/233
US 3817096 A	BALLISTIC RANGE DUST EROSION APPARATUS	19740618	73/167
US 3785203 A	WAVE FORCE TRANSDUCER	19740115	73/170.31
US 3705516 A	METHOD AND APPARATUS FOR TESTING THE CONDITION OF A MACHINE	19721212	73/659
US 3691991 A	APPARATUS FOR SPRAY-COATING COMPONENTS	19720919	118/629
US 3681967 A	BALANCING MACHINE AND METHOD FOR CALIBRATING THE SAME	19720808	73/1.14
US 3675495 A	WHEEL BALANCING APPARATUS	19720711	73/466
US 3643498 A	APPARATUS FOR TESTING SOILS IN SITU	19720222	73/811
US 3590626 A	SINUSOIDAL PRESSURE CALIBRATOR	19710706	73/1.67
US 20040025972 A1	Method of controlling a treatment line	20040212	148/241
US 20030233053 A1	Pain assessment	20031218	600/553
US 20030221487 A1	PORTABLE VEHICLE TESTING ENVIRONMENT	20031204	73/462
US 20030162091 A1	Battery pack	20030828	429/156
US 20030126812 A1	Casement window	20030710	52/204.62
US 20030083839 A1	RF fixture electronics for testing RF devices	20030501	702/117
US 20030082825 A1	Apparatus for rapid measurement of aerosol bulk chemical composition	20030501	436/148
US 20030078308 A1	Ion-exchange materials with improved ion conductivity	20030424	521/27
US 20030056593 A1	Multi-level machine vibration tester marker pen	20030327	73/649
US 20030043046 A1	Vibration sensing satellite call-out unit	20030306	340/683
US 20030033883 A1	Method and system for detecting drive train vibrations	20030220	73/649
US 20030019852 A1	Laser marking system	20030130	219/121.68
	Method of improving steering performance robustness utilizing dimensional non-		
US 20030010105 A1	uniformity in tire/wheel	20030116	73/146
	Method of improving steering performance robustness utilizing stiffness non-		
US 20030005757 A1	uniformity in tire/wheel	20030109	73/146
US 20020196450 A1	Scanning interferometry with reference signal	20021226	356/511
	Methods of determining susceptibility to or presence of schizophrenia, or a		
US 20020193581 A1	disorder related thereto	20021219	536/23.1
US 20020189778 A1	Foundry sand	20021219	164/1
US 20020183942 A1	Modal analysis method and apparatus therefor	20021205	702/56
	Real-time biological-chemical-physical sensitivity and irritation onset neuro		
US 20020169386 A1	sensory (BIOCAPSIONS) biofeedback monitor	20021114	600/544

US 20020127143 A1 US 20020123860 A1	A1 Saliva-monitoring biosensor electrical toothbrush A1 Relation of rotational vibration stimuli to performance of a hard disc drive	20020912 20020905	422/68.1 702/182
US 20020083772 A1	Blade vibration test apparatus and method	20020704	73/660
¥	Coriolis effect transducer	20020704	73/1.37
	Close-proximity radiation detection device for determining radiation shielding		
US 20020075189 A1	device effectiveness and a method therefor	20020620	343/702
US 20020016535 A1	Subcutaneous glucose measurement device	20020207	600/319
US 20020014125 A1	Apparatus for connecting a coriolis flowmeter flow tube to a flowmeter case	20020207	73/861.357
	Methods and apparatus for in vivo identification and characterization of vulnerable		
US 20010047137 A1	atherosclerotic plaques	20011129	600/475
US 20010032510 A1	In situ testing of a satellite or other object prior to deployment	20011025	73/571
	Regulating valves test stand - has resilient vallatve mounting simulating vibrating		
SU 450982 A	operational conditions	19741215	
	Meter of vibration amplitude of objects - has light splitter to split laser beam into		
SU 1374060 A	measuring and reference channels	19880215	
	Acoustic well logging equipment test device - has converters placed in hermetic		
SU 1018075 A	converters, movable along tube surface	19830515	
NN7108850	Ultrasonic Pressure and Frequency Analyzer. August 1971.	19710801	

Results of search set L5:

	INTERACTIVE SOUND EFFECTS SYSTEM AND METHOD OF PRODUCING		
WO 9916049 A1	MODEL-BASED SOUND EFFECTS	19990401	
	IMPROVEMENTS IN OR RELATING TO TESTING APPARATUS AND		
WO 9417384 A1	METHODS	19940804	
US RE36282 E	System for using geopressured-geothermal reservoirs	19990831	60/641.2
US RE30278 E	Special effects generation and control system for motion pictures	19800520	352/5
US 6734334 B2	Processes for immobilizing radioactive and hazardous wastes	20040511	588/2
	Method of determining the topology of a network by transmitting and monitoring		
US 6728670 B2	sequences of orthogonal signals	20040427	704/224
US 6728640 B2	Method of short term forecasting of moderate size earthquakes	20040427	702/15
	Directional rolling pendulum seismic isolation systems and roller assembly		
US 6725612 B2	therefor	20040427	52/167.5
US 6721684 B1	Method of manufacturing and analyzing a composite building	20040413	702/183
	Computer process for prescribing second-order tetrahedral elements during		
US 6697770 B1	deformation simulation in the design analysis of structures	20040224	703/2
US 6694815 B2	Liquefaction phenomenon prediction system	20040224	73/584
	Directional sliding pendulum seismic isolation systems and articulated sliding		
US 6631593 B2	assemblies therefor	20031014	52/167.9
	Method for reducing the calculation time of a numerical calculation for a computer	_	
US 6631343 B1	implemented superposition model	20031007	703/2
US 6629042 B2	Testing system and testing method for structure	20030930	702/42
US 6598359 B1	Earthquake-immune curtain wall system	20030729	52/167.3
US 6547624 B1	System for recording and editing films	20030415	446/85
US 6424929 B1	Method for detecting outlier measures of activity	20020723	702/179
US 6411997 B1	Method of determining the topology of a network of objects	20020625	709/224

166/249 703/2 702/42 702/15 340/690 702/56 248/154 52/220.2	702/113	166/249 370/252 52/729.1 52/167.1	52/167.1 248/154 52/167.4 222/485 52/167.6 62/643 719/315	73/801 248/505 370/254	716/9 52/506.07 73/865.6 73/662 211/26 702/141 345/419 52/167.1 49/501 370/254 434/66 52/167.1
20020618 20020528 20020528 20020514 20020416 20020122 20020102 20020108	20010807 20010717	20010717 20010605 20010529 20010529 20010109	20010109 200001114 20000829 20000829 20000815	20000613 20000418 20000404	20000328 20000229 20000201 19991207 19990928 19990831 19990824 19990727 19990720 19990720
Enhancement of flow rates through porous media Seismic evaluation method for underground structures Testing system and testing method for structure Method for 4D permeability analysis of geologic fluid reservoirs Method for predicting seismic events Shaking test apparatus and method for structures Fastening apparatus System floor and construction method thereof Force servo actuator with asymmetric nonlinear differential hydraulic force feedback	Hydraulic force servo control system for compensating for unequal loading forces applied to an actuator piston e.g. used to test noise, vibration and harshness of vehicle, by using asymmetric nonlinear hydraulic force feedback Earthquake simulating shaking system Earthquake simulating system for partial construction system, has multiple separated movement producing devices each including mounting surface	connected with multiple actuators Enhancement of flow rates through porous media Method for automatically aggregating objects Steel frame stress reduction connection Building system using shape memory alloy members	bunding system using snape memory alloy members Fastening apparatus Structure stabilization system Dry sand pluviation device Earthquake-resistant load-bearing system Air separation plants Method and system for dynamic object clustering	Method of diagnosing fatigue life of structural steelwork and a member of steelwork having life diagnostic function Restraint system and method for protecting barrels in a barrel stack against earthquake damage Method of determining the topology of a network of objects Computer process for prescribing second-order tetrahedral elements during	deformation simulation in the design analysis of structures Seismic fixture clamp Centrifuges and associated apparatus and method Preload piston actuator Equipment rack Moving object controller containing a differential of acceleration measurer Graphic data processing system Seismic fixture clamp Earthquake-resistant door structure and an earthquake-resistant device Method of determining topology of a network of objects which compares the similarity of the traffic sequences/volumes of a pair of devices Reactive ride simulator apparatus and method Hysteretic damping apparati and methods
US 6405797 B2 US 6397168 B1 US 6397153 B1 US 6373396 B2 US 63741258 B1 US 6340143 B1 US 6369733 B1	US 6269733 B US 6263293 B1	US 6263293 B US 6241019 B1 US 6240068 B1 US 6237303 B1 US 6170202 B1	6145796 6145796 6115972 6109486 6101840 6088739	US 6073493 A US 6050538 A US 6046988 A	US 6044210 A US 6029414 A US 6019006 A US 5996417 A US 596417 A US 5945976 A US 5945976 A US 5941029 A US 5926462 A US 586562 A US 586562 A US 586562 A

US 5842148 A	Method of evaluating and classifying living structures for estimating potential damage thereto from physical disturbances	19981124	702/34
US 5783945 A	Earinquake Torecast method and apparatus with measurement of electrical, temperature and humidity parameters of soil	19980721	324/348
US 5742278 A	Force feedback joystick with digital signal processor controlled by host processor	19980421	345/156
US 5726886 A	Moving object controller containing a differential of acceleration measurer	19980310	701/93
US 5724893 A	Servo-type shaking table assembly	19980310	108/20
	Shaking table assembly for vibration testing of e.g. car and electronic parts, and		
	in earthquake simulation on building - is of servo type, with testing table slidably		
US 5724893 A	mounted on one set of perpendicularly arranged linear guides	19980310	
US 266U/36 A	Steel frame stress reduction connection	9701/661	52//29.1
	Method and apparatus for automatic monitoring of tectonic stresses and		1
US 5675088 A	quantitative forecast of shallow earthquakes	19971007	73/784
US 5634876 A	Centrifuges and associated apparatus and methods	19970603	494/67
US 5618070 A	Push button quake latch	19970408	292/228
US 5612943 A	System for carrying transparent digital data within an audio signal	19970318	369/124.09
US 5602759 A	Motor vehicle vibrating system	19970211	702/56
US 5602564 A	Graphic data processing system	19970211	345/782
US 5601433 A	Earthquake toy, educational device or the like	19970211	434/130
	Educational device or toy for simulating effects of earthquakes - comprises		
US 5601433 A	flywheel disposed in slot formed in table and connected to output shaft of motor	19970211	
	Programming device and method for controlling ride vehicles in an amusement		
US 5583844 A	attraction	19961210	701/1
US 5572440 A	Motor vehicle vibrating system and method of controlling same	19961105	700/280
US 5560161 A	Actively tuned liquid damper	19961001	52/167.2
US 5556340 A	Amusement ride assembly with rotating tube synchronized with an image	19960917	472/59
US 5545040 A	Multi-tier jack motion system	19960813	434/58
US 5524978 A	Slider quake latch	19960611	312/216
US 5457370 A	Motion control system for cinematography	19951010	318/571
US 5403238 A	Amusement park attraction	19950404	472/43
	Modular reinforcement cages for ductile concrete frame members and method of		
US 5392580 A	fabricating and erecting the same	19950228	52/660
US 5388056 A	Method and system for vibration test	19950207	702/56
	Vibration test system e.g. for large building with high precision operation - tests		
	partial structural response w.r.t. applied excitation signal, and analyses numerical		
US 5388056 A	model for larger structure using test results	19950207	
US 5330066 A	Two tier frame	19940719	211/189
US 5259159 A	Construction having a damping device	19931109	52/167.1
US 5165235 A	System for using geopressured-geothermal reservoirs	19921124	60/641.2
US 5137353 A	Angular displacement measuring device	19920811	356/139.03
US 5009412 A	Eathquake simulator for a theme park	19910423	472/59
US 4980118 A	Nuclear power generating station equipment qualification method and apparatus	19901225	376/247
US 4899892 A	Factoriate per a general government frame	19900213	211/26
US 4887788 A	Base isolation had	19891219	248/562
		217006	10000

US 4884030 A	Method and system for acquisition and separation of the effects of electromagnetic fields to predict earthquakes	19891128	324/344
US 4876058 A	Nuclear power generating station equipment qualification method and apparatus Nuclear steam generator wrenner barrel/title support plate connection assembly	19891024	376/247
US 4690206 A	and radial tuning method for assembling same	19870901	165/81
US 4679591 A	Servovalve drive electronics improvements	19870714	137/624.13
	Servovalve drive with high frequency resonance compensation - has final input single fed into drive exetem using two amplifiers connected as current numbers.		
US 4679591 A	agnaried into drive system using two amplimers conflicted as carrent pumps to drive current numps.	19870714	
US 4644714 A	Earthquake protective column support	19870224	52/167.4
US 4602555 A	Preloaded table coupling	19860729	92/61
US 4537077 A	Load dynamics compensation circuit for servohydraulic control systems	19850827	73/665
	Load compensation circuit for servo-hydraulic control system - has actuator force		
	determined from differential pressure times piston area with specimen force		
US 4537077 A	calculated in accordance with table mass	19850815	
US 4537076 A	Apparatus for and method of random vibration control	19850827	73/662
	Post-processing of seismic parameter data based on valid seismic event		
US 4516206 A	determination	19850507	702/18
US 4513402 A	Earthquake simulator	19850423	367/73
US 4429496 A	Method and apparatus for active control of flexible structures	19840207	52/1
US 4394017 A	Earthquake game	19830719	273/237
	Game which simulates disasters and excitement of earthquake - has board with		
	building structures on squares representing cities which are tilted and vibrated by		
US 4394017 A	motorised mechanism	19830719	
US 4385524 A	Compact shake mechanism	19830531	73/663
US 4343475 A	Earthquake game device	19820810	273/276
	Earthquake simulating toy building game - has metal balls running along rutted		
US 4343475 A	board to vibrate toy building	19820810	
US 4330103 A	Earthquake protector	19820518	248/548
US 4278102 A	Disaster activated shut-off valve	19810714	137/39
US 4226677 A	Earthquake-proof foundation structure for horizontal type coke oven battery	19801007	202/138
US 4193570 A	Active nutation controller	19800318	244/165
US 4164152 A	Biaxial vibration-testing installation	19790814	73/665
4147358	Vibrating game apparatus with loosely interfitting surface elements	19790403	273/241
US 4112776 A	Earthquake simulator	19780912	73/665
	Booth earthquake simulator - has frame for hydraulically operated platform		
US 4112776 A	reciprocated through lever system	19780912	
US 4056892 A	Engineering and educational table and method of use	19771108	434/151
US 4040220 A	Concrete joints	19770809	52/259
US 4026383 A	Gyroscopic vibrator	19770531	181/121
US 4020672 A	Mechanical force pulse generator for use in structural analysis	19770503	73/12.04
US 3990039 A	Tuned ground motion detector utilizing principles of mechanical resonance	19761102	367/179
US 3973839 A	Special effects generation and control system for motion pictures	19760810	352/5
	Functional object data, functional object imaging system, and object data transmitting unit, object data receiving unit and managing unit for use in the		
US 20040093103 A1	functional object imaging system	20040513	96/002

US 20040074723 A1 US 20040069725 A1	Detachable and replaceable shock damper for use in structures Seismically resistant network equipment rack	20040422 20040415	188/371 211/26
	Directional sliding pendulum seismic isolation systems and articulated sliding		
US 20040045235 A1	assemblies (neretor	20040311	52/274
	Daniage resistant glass parier Zoom lans evetem	20040304	52/204.5
11S 2004002 1953 A 1	Forthwiske immine cutain well evelor	20040203	508/09
11S 20030208986 A1	Charles trace reduction connection	20040129	52/10/.3
15 200202020202 16 20020202020202020202020202020202020202	ביייין ביייין פתחכיים ביייין פתחכיים ביייין בייין ביייין ביייין ביייין ביייין ביייין בייין ביייין ביייין ביייין ביייין בייין ביייין בייין ביייין בייין בייין בייין בייין בייין ביייי	20031113	52/653.1
20030200706	Exoskeleton system for reinforcing tall buildings	20031030	52/167.3
US 20030182065 A1	Method of short term forecasting of moderate size earthquakes	20030925	702/15
US 20030177834 A1	Liquefaction phenomenon prediction system	20030925	73/649
	Advanced processes for coring and grouting masonry	20030911	52/742.16
US 20030144568 A1	Seismic cask stabilization device	20030731	588/1
	Vibration testing device for evaluating earthquake characteristics, has numerical		
	simulation blocks, vibration calculating, and waveform generating block		
US 20030055582 A	generating time function of deformation applied to test piece	20040406	
US 20030051032 A1	Method of determining the topology of a network of objects	20030313	709/224
US 20030047854 A1	Detachable and replaceable shock damper for use in structures	20030313	267/136
US 20030012084 A1	Seismic wave measuring devices	20030116	367/178
US 20020195246 A1	Enhancement of flow rates through porous media	20021226	166/249
	Directional sliding pendulum seismic isolation systems and articulated sliding		
US 20020166301 A1	assemblies therefor	20021114	52/274
	Directional rolling pendulum seismic isolation systems and roller assembly		
US 20020166296 A1	therefor	20021114	52/167.5
US 20020143935 A1	Method of determining the topology of a network of objects	20021003	709/224
US 20020116493 A1	Mathod of determining the topology of a network of objects	20020822	*CC/004
11S 20020115436 A1	Testing system and testing method for structure	2002082	703/44
2022020	Doing applicing mother of contracts and contracts	-	14/707
115 20000000231	Design analysis memod of earniquare-proof reminificament subcure, and storage		3001
US 20020039273 A1		20020718	L/80/
US 20020059034 A1	Shaking test apparatus and method for structures	20020516	702/56
	Processes for immobilizing radioactive and hazardous wastes	20020328	588/3
20020014043	Manufacture and use of earthquake resistant construction blocks	20020207	52/167.1
US 20020011936 A1	Method for predicting seismic events	20020131	340/690
US 20010029432 A1	System and method for analyzing structures subjected to catastrophic events	20011011	702/15
US 20010017206 A1	Enhancement of flow rates through porous media	20010830	166/249
	Earthquake simulator - with igniters producing shock waves in cylinders and		
SU 953482 B	accelerating pressure drop	19820825	
	Simulating seismic action of earthquakes on buildings - by producing vibrations at		
SU 905896 B	intervais equal to natural vibration period of building to create conditions of max. danger	19820215	
	Earthquake safety test for buildings - by using explosive buried charges in		
SU 896459 B	specified pattern fired in specified order to simulate seismic shocks	19820107	
;	Testing earthquake resistance of buildings - by using a platform with		
SU 489980 A	simultaneous movements in three directions	19760202	
SU 1322834 A	Process of running of blasting operations	19981010	

on building t 19941215 19830216 19810722	DEVICE 19991126 19991102 19990525 ON 19990409 In can be 19990409 Inism 20040402 peration of seistance 20040402	s collection c bearing 20040304 20040129	convert graph data 20040129 1 20040115 showing 20040115 WITH 20031017	20031017 expected rmine 20031017 XTHQUAKE 20031003	ure supply n regions of 20031003 pport ic cylinder 20031002
smo-action effects of earthquakes / model of object, and uses impa pply impacts to model SIZED STRUCTURE	AANCE OF VIBRATION-IMMUNE TWIN VIBRATING TABLES URE FRAME NRTHQUAKE SIGN PHENOMEN hydraulic cylinder whose operating gloor can experience shake duri quake-resistance support mecha lock mechanism which secures o o that subject on oscillating floor and non-operation of earthquake-re	paratus for e.g. flight simulator haydraulic chambers and hydrostat nhydrostatic bearing pockets FOR EARTHQUAKE DAMAGE	as digital-to-analog converter to e reception installation to seismo RAINING SIMULATION SYSTEM m produces simulation data table e of earthquake and flood Y AMPERE BREAKER COPING ALUATION SYSTEM OF BUILDII	XPECTED LIFE CYCLE COST RDED building, calculates risk based or ake occurrence probability to deta LATION OF TRAINING FOR EAI	n has tables with standard press ralues corresponding to simulatio arthquake, respectively three link mechanisms, which sung frame and actuated by hydrau to three axial directions
Modelling stand for investigating seismo-action effects of earthquakes on building models - has horizontal table to carry model of object, and uses impact mechanism in adjustable frame to apply impacts to model EXCITATION DEVICE FOR LONG SIZED STRUCTURE OSCILLATION DEVICE	METHOD FOR TESTING PERFORMANCE OF VIBRATION-IMMUNE DEVICE APPARATUS FOR CONTROLLING TWIN VIBRATING TABLES ANALYZING METHOD OF STRUCTURE FRAME SIGN PHENOMENON DISASTER SIMULATION APPARATUS FOR EARTHQUAKE SIGN PHENOMENON DISASTER SIMULATION SYSTEM Cociliation apparatus for vehicle has hydraulic cylinder whose operation can be switched so that subject on oscillating floor can experience shake during operation and non-operation of earthquake-resistance mechanism so that subject on oscillating floor can experience shake during operation and non-operation of earthquake-resistance mechanism so that subject on oscillating floor can experience shake during operation and non-operation of earthquake-resistance mechanism	Single rod-type hydraulic cylinder apparatus for e.g. flight simulator has collection channel which is provided between hydraulic chambers and hydrostatic bearing pockets to recover oil flowed out from hydrostatic bearing pockets REAL TIME COMPUTING DEVICE FOR EARTHQUAKE DAMAGE	Building damage calculation device has digital-to-analog converter to convert earthquake data received by real-time reception installation to seismograph data EARTHQUAKE PREPAREDNESS TRAINING SIMULATION SYSTEM Earthquake training simulation system produces simulation data table showing amount of supply of gas/water at time of earthquake and flood FASTENING FIXTURE FOR SAFETY AMPERE BREAKER COPING WITH EARTHQUAKE	RECORDING MEDIUM IN WHICH EXPECTED LIFE CYCLE COST EVALUATION PROGRAM IS RECORDED Life cycle cost evaluation system for building, calculates risk based on expected damage cost of building and earthquake occurrence probability to determine expected life cycle cost of building METHOD AND SYSTEM FOR SIMULATION OF TRAINING FOR EARTHQUAKE EMERGENCY	Earthquake training simulation system has tables with standard pressure supply values and pressure change supply values corresponding to simulation regions of pipe before and after occurrence of earthquake, respectively Oscillation apparatus for vehicle has three link mechanisms, which support oscillation stand with respect to yawing frame and actuated by hydraulic cylinder to reciprocably move oscillation stand to three axial directions
RU 2024955 C JP 58026241 A JP 56090232 A	JP 411326113 A JP 411300278 A JP 41140965 A JP 411095649 A JP 411095648 A JP 2004101785 A	JP 2004068863 A	JP 2004028929 A JP 2004012988 A JP 2004012988 A JP 2003297212 A	JP 2003296396 A JP 2003296396 A JP 2003281459 A	JP 2003281459 A F F J J J J J J J J J J J J J J J J J

TENTIAL	STRUCTURAL DAMAGE ESTIMATION SYSTEM AND PROGRAM 20030808 Piping apparatus of nuclear power plant, calculates vibration response of piping unit analytical model with respect to seismic load, based on which damping ratio	and elasticity limit of piping material are setup Huge stroke vibration excitation apparatus for earthquake simulation, has pulley attached to ciston of whether so that riston etrike is doubled and transmitted to	shake table connected to pulley through wire Earthquake resistance simulator has connection selector that couples second	movable stand on which person is to ride, to first movable stand in shiftable 20030418 manner	Virtual reality space provision apparatus for amusement facilities, synchronizes audio equipment, projector and vibrator which are input with respective control signals generated based on selected environmental condition BUSINESS OF SYSTEM IMPLEMENTATION TO PROVIDE EXPERIENCE SERVICE OF QUAKE OF HOUSE WITH VERY SEVERE EARTHQUAKE	PREVENTIVE FUNCTION STANDING ON STILE EMBEDDED WITH ARTIFICIAL EARTHQUAKE GENERATOR 20030124 Earthquake resistance device has elastic material which provides resiliency to	movement of device support leg from horizontal plane and perpendicularly 20020308 directional fixed position Test equipment for measuring earthquake resistance of subterranean structure,	has jack which applies initial stress equivalent to soil pressure to the subterranean model 20011116 Earthquake simulation three-dimensional shake table for indoor installation, has	top plate which is moved three-dimensionally in parallel to the base, to produce composite vibrations Bearing structure for multistory building in earthquake prone region, has fluid	filled in space formed between internal side surfaces of laminated structure, upper rigid piece and bottom rigid piece Adjustable room arrangement type architectural model used as e.g. ceiling	finater, has each main beam hanked on both sides by sub beams and served as 20010914 Disaster rescue training apparatus for use during e.g. earthquake, has simulation offert installation to change weather condition of hase and training deck provided	to base selectively based on type of disaster EARTHQUAKE MOTION SIMULATING METHOD Simulation earthquake motion production method for building design, involves	adjusting speed of base wave corresponding to maximum speed range of surface wave Z0010420 Triaxial direction vibration tester for earthquake-proof structures, has vertical axis	
								∢	∢	•	, -			The second secon
2003262571 2003239221	JP 2003222566 A	JP 2003132107 A	JP 2003130755 A	JP 2003114604 A	JP 2003066825 A	JP 2003022001 A	JP 2002070945 A	JP 2001318024	JP 2001305948 ,	JP 2001304334 A	JP 2001248229 A	JP 2001134168 A JP 2001108573 A	JP 2001108573 A	

JP 2001091398 A	Reliability characteristic test for earthquake resistance unit, involves attaching molding units simulating peripheral structure, on upper and lower sides of earthquake resistance unit of examination structure. Shearing soil tub for centrifugal oscillation model for simulating behavior pattern	20010406
JP 2001074591 A	or ground during earlingdake, has earth tank for receiving earth and saild composed of base and multilayered frames. Operation condition exhibition model for earthquake resistant locking device, has transparent sidewall provided for two cides of case to anally visualized of constants.	20010323
JP 2001066983 A JP 2000313508 A	transparent stowars provided on two states of case to enable viewing of operating condition of locking device BUILDING TYPE RACK METHOUAKE RESPONSE OF BUILDING TYPE MALYZING EARTHOUAKE RESPONSE OF BUILDING TYPE	20021105 20001114
JP 2000310581 A	RACK Antiseismic system for large buildings, has earthquake resistance apparatus and passive antiseismic annaratus which are respectively installed at base and for of	20001107
JP 2000310058 A	prostrict anascismo apparatus mich are respectively instance at tasse and top or building building operation maintenance system for lift, has controller which judges anality of test oneration of drive unit during simulative disaster conditions and	20001107
JP 2000302348 A	accordingly judgment signal is output Earthquake simulating apparatus for installation to motor vehicle, has Y-direction	20001031
JP 2000259073 A	frame arranged at central side of X-direction frame Earthquake resistant structure in bridge, has multilayer lamination of hard board and soft hours electronical in between unner and lower electrons plates	20000922
JP 2000120781 A	which are supported by a support mechanism Earthquake damage countermeasure assistance apparatus for disaster	20000425
JP 2000075040 A	prevention system, preserves usingle estimation result in objective area and outputs estimation result in response to focus information. Controller of earthquake resistance apparatus in building - has fixed maintenance and releasing mechanism to onerate fixing unit for fixation and release of	20000314
JP 11315645 A	insulated support mechanism to operate itsning unit to itsation and recease of insulated support mechanism Disaster experience simulator for determining earthquake, fire, etc - includes calculating coordinate data of character based on action characteristic of institutions of the coordinate data of character based on action characteristic of institutions.	19991116
JP 11272647 A JP 11249542 A	individual person who decides disaster depending on virtual space model and coordinate data of initial character EARTHQUAKE DISASTER SIMULATION EXPERIENCE DEVICE	19991008 19990917
JP 11249542 A JP 11211553 A JP 11211553 A	Earthquake disaster situation simulation for evaluating level of disaster prevention consciousness of trainee - consists of databases storing previous earthquake video data, audio data and trainee response to particular situation, based on which earthquake situation data is correspondingly generated SIMPLIFIED METHOD FOR EVALUATING RESPONSE OF PIPING TO EARTHQUAKE Earthquake response evaluation method for pipelines used in power station etc involves converging calculation until rotation angle agrees with assumed rotation angle	19990917

	Multimode oscillation control method of vibration excitation stand used for study	
	of earthquake resistant structure - involves controlling shaking table by excited	
JP 11194066 A	Vibration given by both nonzontal and vertical vibration excitation actuators. Destruction observation simulation method - involves induing if committed stored.	12/06661
JP 11183629 A	Programmer and block satisfies predetermined formula Persipe FOR VISUALLY CHECKING VIREATION OF RILL PINC PLIETO	19990709
JP 11161148 A	EARTHQUAKE	19990618
	Earthquake-resisting capability testing apparatus for building - has table, on which earthquake-resistant building models are distributed which is vibrated according	
JP 11161148 A	to frequency similar to that of actual earthquake	19990618
JP 11160144 A	THREE-DIMENSIONAL EARTHQUAKE RESPONSE ANALYZING METHOD	19990618
	Three dimensional earthquake response analysis method of pylon - involves	
	nodel axially using unit load, to evaluate	
JP 11160144 A	earthquake response power of pylon	19990618
JP 11095649 A	eir behavior	19990409
	Disaster simulation system for determining medical countermeasure corresponding to damage situation during e.g. earthquake - includes medical	
	provision simulator that determines distribution in victims infirmary corresponding	
JP 11095648 A	to received information	19990409
	Earthquake proof piping structure for high rise buildings - has L-shaped piping	
	located in piping pit in freely movable condition with one end connected to	
JP 11094161 A	underground buried piping and another end connected to building piping	19990409
	Earthquake-resistant multistory carpark - has steel column isolated from building	
	pivot, such that brackets at upper edge of steel column control horizontal	
JP 11050685 A	displacement of steel column during earthquake	19990223
	METHOD FOR FORECASTING EARTHQUAKE MOVEMENT, AND	
	ORDED WITH PROGRAM FOR FORECASTING	
JP 11044771 A		19990216
	Vertical vibration suppression structure for flooring in earthquake resistant	
	buildings - has multistage serial springs which are clamped to block and main	
JP 11044086 A		19990216
	METHOD AND DEVICE FOR GENERATING SIMULATED EARTHQUAKE	
	MULATED EARTHQUAKE	
JP 10320450 A		19981204
	Simulation earthquake motion production method for automatic structure design -	
	involves inputting analysis, dislocation, fracture and simulation earthquake	
	parameters into motion generator based on extracted specific earthquake history	
JP 10320450 A		19981204
	METHOD AND DEVICE FOR GENERATING SIMULATED EARTHQUAKE	
	MOTION, AND RECORDING MEDIUM WHERE SIMULATED EARTHQUAKE	
JP 10320449 A		19981204
	Seismic motion simulation method - involves inputting dislocation parameter,	
!	ke motion parameter to simulation generator	
JP 10320449 A	based on set up active fault data	19981204

JP 10320448 A	METHOD AND DEVICE FOR GENERATING SIMULATED EARTHQUAKE MOTION, AND RECORDING MEDIUM WHERE SIMULATED EARTHQUAKE MOTION GENEATING PROGRAM IS RECORDED Simulation earthquake motion production method for automatic structure desiration, insuffice and substants of simulation confluence.	19981204
JP 10320448 A	designing - involves inputining analysis and substrate simulation earlingtance motion parameter to simulation earthquake motion generator based on extracted earthquake search condition METHOD AND DEVICE FOR SIMULATING EARTHQUAKE MOTION, AND DEVICED ANALDER AND STORE MOTION, AND DEVICED AND STORE MOTION CIME IN ATTAILS DEVICED AND STORE MOTION CIME IN A TAILS DEVICED AND STORE MOTION CIME MOTION CIME IN A TAILS DEVICED AND STORE MOTION CIME MOTIO	19981204
JP 10319829 A	NECORDER INC. 100 MICHAEL STATE INC. 100 MICHAEL INC. 100 MICHAEL INC. 100 MICHAEL STATE IN	19981204
JP 10319829 A	Earthquake simulation method - involves simulation of earthquake, which opposes input physical properties of ground, on site designated through longitude and latitude coordinates, city name and postal code S-WAVE EARTHQUAKE WAVE PROBING MODEL EXPERIMENT METHOD	19981204
JP 10319129 A	AND DEVICE Simulation method for detecting vibration due to earthquake - involves measuring	19981204
JP 10319129 A	violation of reflecting sheet using laser hoppier violation fileter based on which seismic wave is detected by simulation technique. Testing apparatus for elevator operation under simulated earthquake conditions has timing circuit housed in case, which has selection knot on its front side and	19981204
JP 10305973 A JP 10279215 A	map divide the second in case, which has selected this possible and magnet for fixing to earthquake sensor on its rear side EARTHQUAKE ABNORMALITY DETECTOR FOR ELEVATOR METHOD FOR SHORTHING OPERATION TIME OF NUMERIC CASE IN A TION OF OWER A MACHEL BY LIGHT COMMITTED AND	19981117 19981020
JP 10254852 A	PROGRAM RECORDED MEDIUM. Simulated earthquake observation method for geological survey, exploration, active fault detector - involves calculating component existence percentage based on pack fractions and corresponding notice lavel of specified lavel to	19980925
JP 10253766 A JP 10213518 A	basou on pean inequality and corresponding house level of specified level, to judge noise signal EARTHQUAKE SIMULATION DEVICE Earthquake simulation apparatus - has acceleration sensor that measures impact exerted on carrier by drive some such that excitation unit adds drive of each	19980925 19980811
JP 10213518 A	drive source as impact of different direction Earthquake response analysis system for simulation of non- linear behaviour of ground structure - solves non-linear oscillating equation containing mass of earth, external nower resulting from internal nower based on equivalent node nower	19980811
JP 10090051 A	during arthquake to analyse reduction integral Earthquake sensor with automatic power supply interrupting facility used in building - has relay contact that closes operation holding circuit connected in	19980410
JP 09308088 A	parallel with earthquake sensing switch by actuation of relay. Excitation machine for generating pseudo earthquake - has pair of actuators which recinocate along one axial line from receiving stand which is nositioned	19971128
JP 09146445 A	between left and right side-frames METHOD AND DEVICE FOR QUANTITATIVELY PREDICTING DIRECTLY	19970606
JP 09145849 A JP 09126943 A	UNDER TYPE LARGE MAGNITUDE EARTHQUAKE METHOD FOR EARTHQUAKE WAVE VIBRATION EXPERIMENT USING TENDON	19970606 19970516

JP 09126942 A JP 09094128 A JP 08329043 A	VIBRATION TESTOR DEVICE FOR SAFETY OF FURNITURE FROM OVERTURN SIMULATION AND PREDICTION DEVICE FOR EARTHQUAKE DAMAGE Simulation forecasting device for earthquake damage - has display controller	19970516 19970408 19961213
JP 08329043 A	which shows computed acceleration for every partition and degree of damage on mesh-like map Simulation test device of weight object supporting structural member during earthquakes - has shearing load generation cylinder which generates load that is	19961213
JP 08313387 A	proportional to inertial force caused due to earthquake by releasing electric hydraulic servo-mechanism Consistent simulation system used e.g. in earthquake-proof building design, airplane design, large-scale semiconductor design - has simulator which perform	19961129
JP 08249374 A	simulation to predetermined model by using input data from input data producing unit unit Underground shear support serving as strong experimental model foundation during continuous. The model foundation during continuous	19960927
JP 08201214 A	frames laminated on vibrating board to hold firmly frames during earthquake Vibration simulator for simulating e.g. earthquake vibration, typhoon-caused vibration in high-rise building - has actuator e.g. hydraulic cylinder which drives main deek to hack and forth directions along two proposite inclined places.	19960809
JP 08178792 A JP 07055630 A JP 06058004 A	respective upper surfaces are touched by wheels of main desk EARTHQUAKE-RESISTANCE EXPERIMENTAL SYSTEM BRACE AND MULTILAYER BUILDING USING THE SAME OPERATION TRAINING SIMILIATOR FOR DOWNER PLANT EQUIDBED WITH	19960712 19950303 19940301
JP 05027664 A	EARTHQUAKE COPYING TRAINING DEVICE CONTROL METHOD OF DYNAMIC VIBRATION REDUCER DEVICE FOR	19930205
JP 04080476 A	BUILDING SIGNAL WAVEFORM PATTERN DISCRIMINATING METHOD AND	19920313
JP 03291536 A JP 03215887 A	EARTHQUAKE DETECTING METHOD TRAINING DEVICE FOR OPERATOR OR THE LIKE METHOD FOR OBTAINING TYPICAL MODEL OF HETEROGENEOUS	19911220
JP 02080994 A FR 2777682 A1 FR 2777682 A	MEDIUM, ESPECIALLY, SUBSOIL Earthquake shock simulator for the study of shocks in sedimentary basins Earthquake shock simulator for the study of shocks in sedimentary basins Seismic wave simulation apparatus for simulating earthquake phenomena occurring in foundation embedded in soil - has elastic energy accumulator shaped to induce a simulated seismic wave of known form in geological specimen such as embedded foundation of building and hydraulic actuator used	19900322 19991022 19991022
EP 848264 A	to preload accumulator in opposite direction	20031202
EP 780748 A	Controller for movable object such as automobile - derives differential of acceleration detected by sensor for use as control information for movable object Controller with acceleration differential sensor for e.g motor vehicle - has rear wheel steering motor and oil pressure controller arranged to generate control signal in dependence on value representing differential of acceleration derived	20021219
EP 557034 A	from control unit	20030616

	Seismic wave generator - for simulating earthquakes when testing scale models	
EP 46116 A	of buildings e.g. nuclear power stations	19820217
	Earthquake simulator for theme park - has platform moved by hydraulic cylinder	
EP 369548 A	arranged in triangle, having common centre of gravity	19900523
	Actuator system for rigid shaker test table - has each actuator provided with static	
EP 169899 B	load and cyclic load rod sections	19850815
	Earthquake simulator - has computer controlled movable floor inside model of	
DE 29707929 U	volcano which has access gangway with mounting points making it flexible.	19970821
CN 1445561 A	Method for forecasting earthquake	20031001
	Earthquake simulation vibrator driving out rats from buildings - comprises	
BR 9302867 A	programmed transformer with central controller and site electrode NoAbstract	19950301